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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/065,212	09/26/2002	Raj Kumar Jain	2000P19188US	8176
31366	7590	04/13/2007	EXAMINER	
HORIZON IP PTE LTD			LE, THONG QUOC	
8 KALLANG SECTOR, EAST WING				
7TH FLOOR			ART UNIT	PAPER NUMBER
SINGAPORE 349282, 349282			2827	
SINGAPORE				
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	04/13/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/065,212	JAIN, RAJ KUMAR
	Examiner Thong Q. Le	Art Unit 2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 February 2007.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 and 22-26 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 2-20,22-26 is/are allowed.
 6) Claim(s) 1 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

1. Amendment filed on 02/08/2007 has been entered.
2. Claims 1-20, 22-26 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-20, 22-26 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Au et al. (U.S. Patent No. 6,546,461).

Regarding claim 1, Au et al. disclose an IC (Figure 1) comprising:

a memory cell array (Figure 1, 40) having a plurality of memory cells, wherein each memory cell includes at least a first port and at least a second port (Column 4, lines 16-17), the first and second ports of the memory cells forming at least first and second access ports of the memory cell array for accessing the memory cells (Column 3, lines 10-20);

a cache memory (Figure 1, 30) coupled to said first and second access ports, wherein during a read operation to the memory cell array to obtain read data through one of said first and second access ports (Column 3, lines 58-63), the cache memory provides the read data if the read data is contained therein (Column 4, lines 39-52, in operations of reading in first page of data from cache, meaning cache contains read data) or the memory cell array provides the read data if the read data is not contained in the cache memory (Column 4, lines 52-60, if the page of next-to-read data is available, data write to cache from memory device, Figure 9, Column 8, lines 30-67, Column 9, lines 1-28; cache memory provides read data if read data available for reading Column 8, lines 60-61);

a refresh control circuit (Column 1, lines 25-45) for performing refresh operations for said memory cells.

Allowable Subject Matter

6. Claims 2-20, 22-26 are allowed.

Claims 2-20, 22-26 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest

the claimed limitations. Au et al. (U.S. Patent No. 6,546,461), and others, does not teach the claimed invention having an IC wherein said cache memory comprises a tag portion, an address portion, and a data portion corresponding to each other, wherein said tag portion indicates if said corresponding address and data portions contain valid address and data values, and wherein during a conflict between a read operation to the memory cc].l m-ray and a refresh operation, the cache memory provides read data if the read data is contained there or the read operation is stalled until the conflict is over if the read data is not contained in the cache memory.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarabian Amir can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Thong Q. Le
Primary Examiner
Art Unit 2827